

---

---

---

वस्त्रादि मशीनरी एवं सहायकांग — बुनाई  
प्रिपरेटरी मशीनरी एवं बुनाई करघे — बाएँ और  
दाएँ दिशाओं की परिभाषा

( पहला पुनरीक्षण )

Textile Machinery and  
Accessories — Weaving Preparatory  
Machines and Weaving Looms —  
Definition of Left and Right Sides

( First Revision )

ICS 59.120.30

© BIS 2022



भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS  
मानक भवन, 9 बहादुरशाह ज़फर मार्ग, नई दिल्ली – 110002  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI-110002  
[www.bis.gov.in](http://www.bis.gov.in) [www.standardsbis.in](http://www.standardsbis.in)

## FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards after the draft finalized by the Textile Machinery and Accessories Sectional Committee had been approved by the Textiles Division Council.

This standard was originally published in 1965. The first revision has been made to incorporate the editorial correction. No technical change has been made.

This standard has been prepared with the intention of eliminating ambiguity and confusion arising from local interpretations of the definition of side (left or right) of weaving preparatory machines and weaving looms installed in the textile mills.

Due consideration has been given to international co-ordination among the standards and practices prevailing in different countries in addition to the practice followed in this field in India. In formulation of this standard, technical assistance has been derived from following International Standards:

- a) ISO 108 Textile machinery and accessories — Weaving looms — Definition of left and right sides
- b) ISO 141 Textile machinery and accessories — Pirn winders and cross winders — Definition of left and right sides
- c) ISO 142 Textile machinery and accessories — Weaving preparatory machines — Definition of left and right sides

The composition of the Committee, responsible for the formulation of this standard is given at Annex A.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounding off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

## Indian Standard

# TEXTILE MACHINERY AND ACCESSORIES — WEAVING PREPARATORY MACHINES AND WEAVING LOOMS DEFINITION OF LEFT AND RIGHT SIDES

*(First Revision)*

## 1 SCOPE

This standard prescribes the definition of side (left or right) of weaving preparatory machines and weaving looms.

## 2 DEFINITIONS OF SIDE (LEFT OR RIGHT)

### 2.1 Pirn Winders and Cross Winders

**2.1.1 Single-sided Machines** — For the determination of the side of a single sided machine, the observer shall look from the position of the operator towards the machine (see Fig. 1). When the observer looks from this position, the side on his left shall be the *left-hand side* and that on his right shall be the *right-hand side* of the machine.

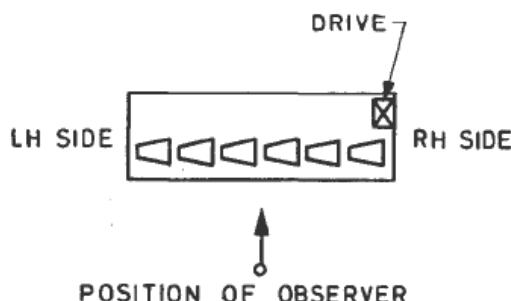


FIG. 1 SIDE OF SINGLE-SIDED MACHINE

**2.1.2 Double-sided Machines with Lateral Drive** — For the determination of side of the double sided machines with lateral drive, the observer shall look from the drive towards the farther end of the frame (see Fig. 2). When the observer looks from this position, the side on his left shall be the *left hand side* and that on his right shall be the *right-hand side* of the machine.

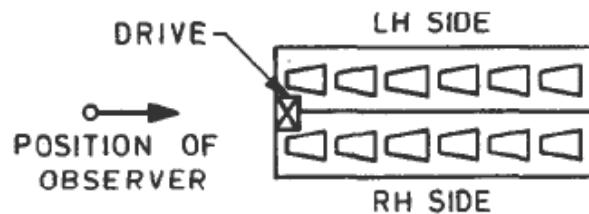


FIG. 2 SIDE OF DOUBLE-SIDED MACHINE WITH LATERAL DRIVE

**2.1.3 Double-sided Machines with Centre Drive** — For the determination of the side of the double-sided machine with centre drive, for each side of the machine the observer shall look from the drive towards the farther ends of the frame (see Fig. 3). When the observer looks from this position, the side on his left shall be the *left-hand side* and that on his right shall be the *right-hand side* of the machine.

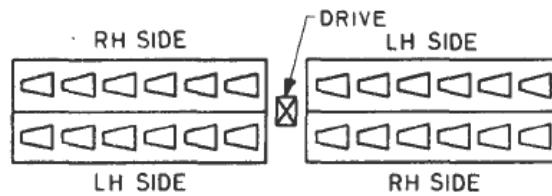


FIG. 3 SIDE OF DOUBLE-SIDED MACHINE WITH CENTRE DRIVE

### 2.2 Weaving Preparatory Machines

**2.2.1** For the determination of the side of weaving preparatory machines, the observer shall look against the flow of the material (see Fig. 4, 5 and 6). When the observer looks from this position, the side on his left shall be the *left hand side* and that on his right shall be the *right-hand side* of the machine.

*Examples:*

- Warping machine (see Fig. 4),
- Sectional warping and beaming machine (see Fig. 5), and
- Warp sizing machine (see Fig. 6).

**2.3 Weaving Looms**

For the determination of the side of loom, the view shall be taken against the run of the warp (see Fig. 7). When the observer looks from this position, the side on his left shall be the *left-hand side* and that on his right shall be the *right-hand side* of the loom.

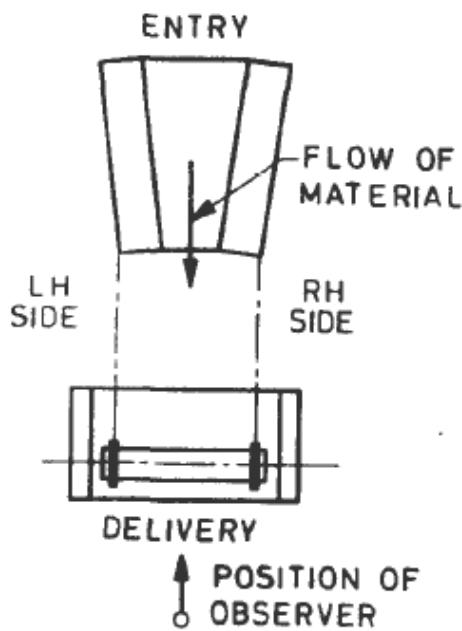


FIG. 4 WARPING MACHINE

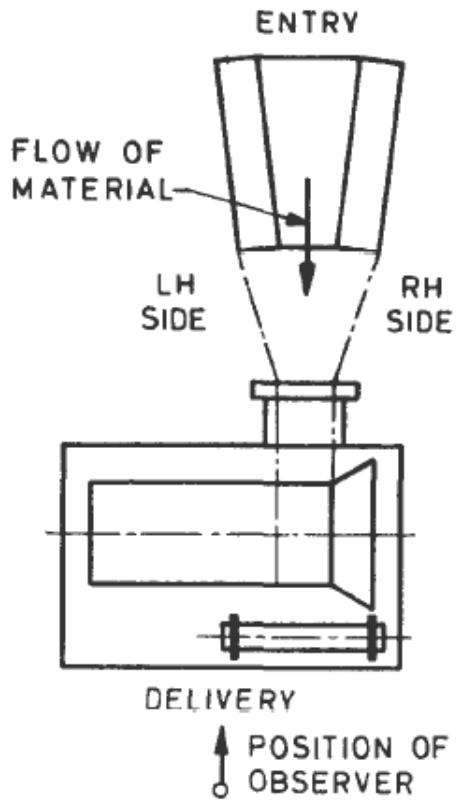


FIG. 5 SECTIONAL WARPING AND BEAMING MACHINE

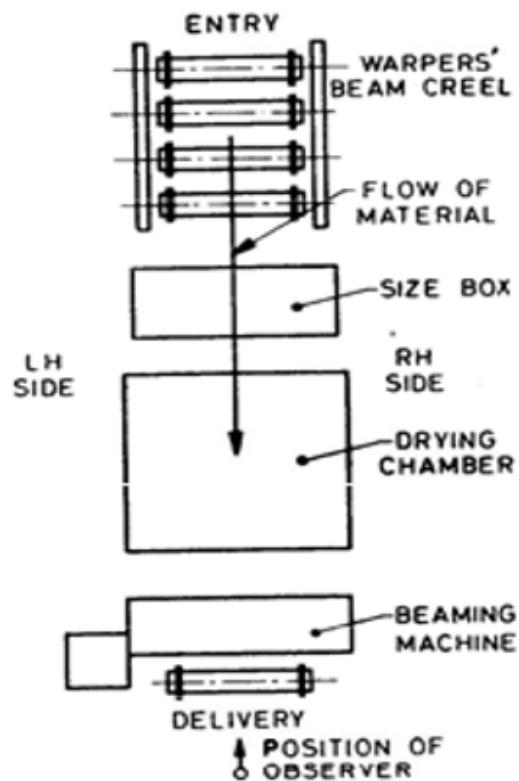


FIG 6. WARP SIZING MACHINE

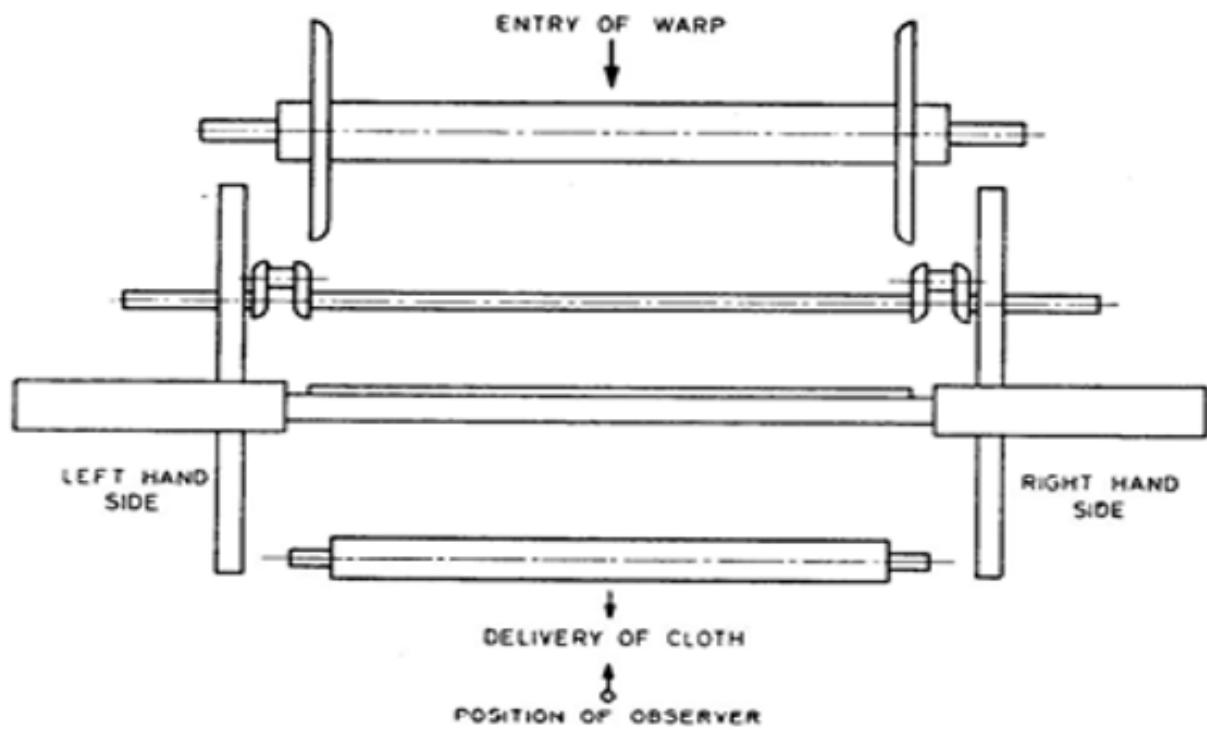


FIG. 7 SIDES OF WEAVING LOOMS

## ANNEX A

( *Foreword* )

### COMMITTEE COMPOSITION

Textiles Machinery and Accessories, TXD 14

<i>Organization</i>	<i>Representative(s)</i>
Central Manufacturing Technology Institute, Bengaluru	DR NAGAHANUMAIAH ( <b>Chairman</b> )
Amritlakshmi Machine Works, Mumbai	SHRI N. K. BRAHMACHARI SHRI N. K. RAUT ( <i>Alternate</i> )
Bhowmick Calculator, Kolkata	SHRI GOUTAM BHOWMICK SHRI VIVEK BHOWMICK ( <i>Alternate</i> )
Bombay Textile Research Association Mumbai	SHRI V. A. GAWDE SHRI R. A. SHAIKH ( <i>Alternate</i> )
Central Institute for Research in Cotton Technology, Mumbai	DR V. G. ARUDE DR T. SENTHIL KUMAR ( <i>Alternate</i> )
Central Manufacturing Technology Institute, Bengaluru	SHRI B. R. MOHANRAJ SHRI K. SARAVANAN ( <i>Alternate</i> )
Confederation of Indian Textile Industry, New Delhi	SHRI AJAY KUMAR
Department of Heavy Industries Government of India, New Delhi	SHRI SUSHIL LAKRA
Harish Textile Engineers Pvt Ltd, Mumbai	SHRI ITENDRA H. SHAH
HLL Lifecare Limited, Noida	SHRI AKHIL G. S. SHRI RATNAKAR GUPTA ( <i>Alternate</i> )
Indian Textile Accessories and Machinery Manufacturers' Association, Mumbai	SHRI N. D. MHATRE SHRI CHANDRESH SHAH ( <i>Alternate</i> )
India ITME Society, Mumbai	SHRI PRASHANT MANGUKIA Ms SEEMA SRIVASTAVA ( <i>Alternate</i> )
Innovative Electrosoft (I) Pvt Ltd, Pune	MR FIROZ B. SHAIKH Ms PRAJAKTA A. DANGAT ( <i>Alternate</i> )
Inspiron Engineering Pvt Ltd, Ahmedabad	SHRI SANJAY KOWARKAR SHRI PRATYUSH B. CHAUHAN ( <i>Alternate</i> )
Kusters Calico Machinery Ltd, Vadodara, Gujrat	SHRI DEVANG PARIKH SHRI SHUBHASIS SUR ( <i>Alternate</i> )
Laksmi Machine Works Ltd, Coimbatore	SHRI V. LAKSHMI VARADHARAJAN
Laxmi Shuttleless Looms Pvt Ltd, Ahmedabad	SHRI KETAN SANGHVI
Man-made Textile Research Association, Surat	DR S. K. BASU DR S. MATIZ ( <i>Alternate</i> )
National Safety Council, Mumbai	SHRI LALIT R. GABHANE. SHRI R. R. DEOGHARE ( <i>Alternate</i> )
Office of the Textile Commissioner, Mumbai	SHRI C. R. KALESAN SHRI JAGRAM MEENA ( <i>Alternate</i> )
Peass Industrial Engineers Ltd, Mumbai	SHRI R. G. YADAV SHRI ANTHONI L. FRANCIS ( <i>Alternate</i> )
Textile Machinery Manufacturing Association, Mumbai	SHRI M. SHANKAR SHRI PRASHANT MANGUKIA ( <i>Alternate</i> )

<i>Organization</i>	<i>Representative(s)</i>
Technocraft Industries India Limited, Mumbai	SHRI RAVINDER KUMAR SHRI ANIL N. UPADHYE ( <i>Alternate</i> )
The Synthetic and Art Silk Mills Research Association, Mumbai	DR MANISHA MATHU SHRI SANJAY SAINI ( <i>Alternate</i> )
The Textile Association (India), Mumbai	SHRI J. B. SOMA SHRI ASHOK JUNEJA ( <i>Alternate</i> )
Truetzscher India Private Limited, Ahmedabad	SHRI PRAVIN KANDGE SHRI SHILADITYA JOSHI ( <i>Alternate</i> )
Unicef India, New Delhi	DR PRATIBHA SINGH MR YUSUF KABIR ( <i>Alternate</i> )
Veermata Jijabai Technological Institute, Mumbai	DR SURANJANA GANGOPADHYAY DR S. P. BARKAR ( <i>Alternate</i> )
BIS Directorate General	SHRI J. K. GUPTA, SCIENTIST 'E' AND HEAD (TXD) [REPRESENTING DIRECTOR GENERAL ( <i>Ex-officio</i> )]

*Member Secretary*

SHRI ASHWANI KUMAR  
SCIENTIST 'B' (TXD), BIS





## Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act*, 2016 to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

### Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Head (Publication & Sales), BIS.

### Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the website- [www.bis.gov.in](http://www.bis.gov.in) or [www.standardsbis.in](http://www.standardsbis.in).

This Indian Standard has been developed from Doc No.: TXD 14 (17890).

### Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

## BUREAU OF INDIAN STANDARDS

### Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002  
Telephones: 2323 0131, 2323 3375, 2323 9402

Website: [www.bis.gov.in](http://www.bis.gov.in)

### Regional Offices:

Central	601/A, Konnectus Tower-1, 6 <sup>th</sup> Floor, DMRC Building, Bhavbhuti Marg, New Delhi 110002	2323 7617
Eastern	8 <sup>th</sup> Floor, Plot No 7/7 & 7/8, CP Block, Sector V, Salt Lake, Kolkata, West Bengal 700091	2367 0012 2320 9474
Northern	Plot No. 4-A, Sector 27-B, Madhya Marg Chandigarh 160019	265 9930
Southern	C.I.T. Campus, IV Cross Road, Taramani, Chennai 600113	2254 1442 2254 1216
Western	Plot No. E-9, Road No.-8, MIDC, Andheri (East), Mumbai 400093	2821 8093

**Branches** : AHMEDABAD. BENGALURU. BHOPAL. BHUBANESHWAR. CHANDIGARH. CHENNAI.  
COIMBATORE. DEHRADUN. DELHI. FARIDABAD. GHAZIABAD. GUWAHATI.  
HIMACHAL PRADESH. HUBLI. HYDERABAD. JAIPUR. JAMMU & KASHMIR.  
JAMSHEDPUR. KOCHI. KOLKATA. LUCKNOW. MADURAI. MUMBAI. NAGPUR.  
NOIDA. PANIPAT. PATNA. PUNE. RAIPUR. RAJKOT. SURAT. VISAKHAPATNAM.